

ABSTRACT

An adoptive immunotherapy using *ex vivo*-generated regulatory T cells may be used for the suppression of undesirable immune response. T cells are to be obtained from the patient's blood, and upon exposure to a set of toxins from the pathogen *A. actinomycetemcomitans*, the population of regulatory T cells will be enriched *ex vivo* and adoptively transferred back to the patient. The novel aspect of the present invention is that it generates large numbers of type 1 regulatory T cells, which secrete Interleukin-10.